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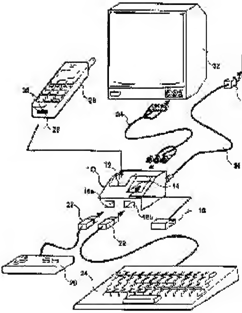
(54) PORTABLE TELEPHONE SET STATION

(57)Abstract:

PROBLEM TO BE SOLVED: To receive various kinds of information services by accessing a network.

SOLUTION: A portable telephone set station 10 includes a connector 12, a connector 14 and UBS ports 16a and 16b. The bottom of a portable telephone set 26 is fixed to the connector 12, and a serial communication port 28 and a charging terminal 30 are connected to the station 10. A memory cartridge 18 is fixed to the connector 14. An operation pad 20 and a keyboard 24 are connected to the ports 16a and 16b. When a user instructs a network connection service through the keyboard, the processor of the station 10 sends a transmission request to the set 26. By utilizing a network connecting function, the set 26 accesses the network, fetches a program and data from there and transfers them to the station 10.



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CLAIMS

[Claim(s)]

[Claim 1]It is a portable telephone station used with a portable telephone which has a network connection function, A processor which has input/output port and an internal memory of data which can be transmitted and received between said portable telephones through a communication port of said portable telephone, An interfacing means for connecting at least one input device to said processor, A video output terminal which gives a video signal outputted from said processor to a television monitor, An audio output terminal which gives an audio signal outputted from said processor to a television monitor, And while having external memory combined with said processor and outputting a video signal and an audio signal to said television monitor, A portable telephone station which said processor acquires data from said network using said network connection function of said portable telephone according to said input device to an input, and was stored in either [at least] said internal memory or said external memory.

[Claim 2]The portable telephone station according to claim 1 where said interfacing means includes a USB port.

[Claim 3]The portable telephone station according to claim 1 where said interfacing means contains an infrared ray data communication means.

[Claim 4]The portable telephone station according to any one of claims 1 to 3 where said external memory contains at least one of a system program storing demand memory, a working memory, and the applications / data storage demand memories.

[Claim 5]The portable telephone station according to any one of claims 1 to 4 which is further provided with a cartridge connector and where said external memory contains a memory cartridge with which said cartridge connector is equipped.

[Claim 6]The portable telephone station according to any one of claims 1 to 5 where is further provided with a portable telephone connector, said portable telephone connector is equipped with said portable telephone, and a communication port of said portable telephone is connected to said input/output port.

[Claim 7]The portable telephone station according to claim 6 where a portable telephone connector is further provided with a charge circuit where it is connected to said charging terminal, and a charging terminal of said portable telephone charges a cell of a portable telephone through said two charging terminals including a charging terminal.

[Claim 8]The portable telephone station according to any one of claims 1 to 5 where data is transmitted and received by short-distance-radio communication between a communication port of said portable telephone, and said input/output port.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention]In this invention, about a portable telephone station, especially, a high-speed processor is carried and it has an interface with input devices, such as a keyboard and a mouse.
Therefore, the user of a portable telephone is related with the new portable telephone station which can use various information services including an E-mail and WWW browsing using TV for home.

[0002]
[Description of the Prior Art]For example, the portable information device which sends the display information on a portable telephone to TV for home using infrared rays, and displayed this display information on JP,9-237145,A [G06F3/02 3/14, H04Q7/38] using that TV footage is indicated.
[0003]For example, the portable communication equipment or the indicative-data inverter which enabled it to display the display information on a portable telephone using TV for home is indicated in a similar manner by JP,11-196159,A [H04N1/00, H04B7/26].
[0004]
[Problem(s) to be Solved by the Invention]Since the information originally displayed on the small liquid crystal display of a portable telephone is greatly displayed on TV footage in the conventional technology quoted in the top, when editing or processing those information, information becomes legible and is dramatically convenient.
[0005]However, each conventional technology can display the information which should be displayed with a portable telephone in TV footage, and does not use the function of a portable telephone positively.

[0006]So, the main purpose of this invention is to provide the new portable telephone station which can use the function of a portable telephone positively.

[0007]Other purposes of this invention are to provide the portable telephone station which makes various information services available using a portable telephone.

[0008]

[Means for Solving the Problem]A portable telephone station according to this invention, It is what uses a portable telephone which has a network connection function, A processor which has input/output port and an internal memory of data which can be transmitted and received between portable telephones through a communication port of a portable telephone, An interfacing means for connecting at least one input device to a processor, A video output terminal which gives a video signal outputted from a processor to a television monitor, An audio output terminal which gives an audio signal outputted from a processor to a television monitor, And while having external memory combined with a processor and outputting a video signal and an audio signal by a television monitor, It is the portable telephone station which a processor acquires data from a network using a network connection function of a portable telephone according to an input device to an input, and was stored in either [at least] an internal memory or external memory.

[0009]As an interfacing means, a USB port, infrared ray data communication (IrDA), etc. can be used.

[0010]External memory contains at least one of a system program storing demand memory, a working memory, and the applications / data storage demand memories.

[0011]When it has a cartridge connector further, external memory contains a memory cartridge with which said cartridge connector is equipped.

[0012]In an example, a portable telephone station is further provided with a portable telephone connector, a portable telephone connector is equipped with a portable telephone, and a communication port of a portable telephone is connected to input/output port.

[0013]When a portable telephone connector contains a charging terminal, a charging terminal of a portable telephone is connected to the charging terminal, and a charge circuit charges a cell of a portable telephone through these charging terminals.

[0014]Between a communication port of a portable telephone, and input/output port included in a processor of a station, using short-distance-radio communication, may be and it may receive it made to transmit data.

[0015]

[Function]A portable telephone station has a portable telephone connector, and the connector is equipped with a portable telephone. The communication port of a portable telephone is connected to the input/output port of a processor, therefore transfer of data is attained between the processor of a station, and the computer of a portable telephone. For example, a keyboard and an input device like a mouse are connected to an interfacing means like a USB port.

[0016]A processor will transmit and receive appearance between the computers of a portable telephone, and if it directs to a processor that a user operates this input device and receives an information service from on a network, it will tell those directions to a portable telephone.

[0017]In a portable telephone, according to the directions, a network is accessed using the network connection function which a portable telephone has, and the program and data which were directed by the user are incorporated.

[0018]Data and the program which were incorporated by the portable telephone let a communication port pass, it is sent to the processor of a station, and the data and program are stored in an internal memory and/or external memory. At this time, the access state to a network is outputted to a television monitor as an image and a sound.

[0019]

[Effect of the Invention]A network can be accessed in this invention, using the network connection function of a portable telephone positively.

Therefore, in the previously quoted conventional technology, the cut nothing profitable E-mail and various information services including WWW browsing can be used.

That is, in the former, very cheap apparatus can realize now various information services which were not fully able to be used without expensive information terminals, such as a personal computer.

[0020]When inputting a name, a telephone number, etc. of the partner point into a portable telephone, and when using messaging service and an E-mail, although an input is very complicated, by the key of a portable telephone, At the portable telephone station of this invention, a keyboard, a mouse, etc. can realize the data input in comfortable environment, and operation of application software by connecting the input device which is easy to treat. The optimal input device for application can be chosen.

[0021]Operations which are hard to perform if the key and display for indication of the portable telephone are used, such as edit of the telephone number data stored in a portable telephone and edit of a ringer tone, can be performed using the input device which is easy to treat, and a legible display (television monitor).

[0022]Similarly, although the information service using a portable telephone has come to be performed briskly, an I mode, EZWEB, etc., Small, since the indicator of the present portable telephone also has few color numbers, the quantity and quality of information which can be displayed have big restriction, and there is a limit also in refreshable tone quality by a loudspeaker with a built-in portable telephone also about a sound. On the other hand, since a television monitor can be used as an output unit of an image and a sound, higher image display capability and sound reproduction capability are realizable at the portable telephone station of this invention.

[0023]Although the method which settles accounts by inputting the information on a credit card in service of the on-line shopping and online trading using the conventional personal computer is common, Since there was no way which confirms that the problem of the security of the Internet, and an article and the donor of service are a company and a store with substance, the user was not able to use service in comfort. The donor of service also has to build and manage the system of payment collection at his risk. On the other hand, in the cellular phone company, it combines with recovery of a telephone rate and the system which executes recovery of the price to offer of information content by proxy is already built. When high image display capability and sound reproduction capability of a portable telephone station to have followed this invention combine with this payment collection system, various new services safe also for offer also for a user and attractive are realizable.

[0024]The above-mentioned purpose of this invention, the other purposes, the feature, and an advantage will become still clearer from the detailed explanation of the following examples given with reference to drawings.

[0025]

[Example]As for PHS besides an analog cellular phone machine or a digital portable telephone etc., the portable telephone with the available portable telephone station 10 of the example shown in drawing 1 is contained. The portable telephone station (it may only be hereafter called a "station".) 10 has a case of arbitrary shape, and the portable telephone connector 12, the cartridge connector 14, the UBS downstream port 16a, and 16b are formed in the case.

[0026]The portable telephone connector 12 has the terminals 44 and 50 (drawing 2) connectable with the serial communication port 28 and the charging terminal 30 which are formed as a crevice of shape in which the pars basilaris ossis occipitalis of the portable telephone 26 is acceptable, and are formed in the bottom of the portable telephone 26, respectively. This connector 12 electrically connects the portable telephone 26 and the station 10, and enables transfer of the data between them. In the case of a digital cellular phone terminal, it connects with the station 10 by the serial communication port of the V.24-IF conformity used standardly now. In the case of PHS, it connects in a PIAFS communication port or an alpha-DATA communication port. however, it is alike and is limited for neither the kind of portable telephone, nor the standard of a data communication port to these.

[0027]The cartridge connector 14 is for connecting to the station 10 the memory cartridge 18 in which semiconductor memory was carried, and can be utilized also as a connector for the expansion of the station 10. Although the cartridge connector 14 is not an indispensable element, it can acquire the following advantages by providing this.

[0028]For example, it is possible to provide the mass application which time requires for acquiring using communication too much as package media like the cartridge 18. When the memory in the station 10 is insufficient, it can store in the memory cartridge 18 storing the downloaded application and data. In application software, such as home banking service and home-trading service, it is useful for strengthening of security by equipping the cartridge 18 with the function as an ID card.

[0029]The memory available as the memory cartridge 18 can consider the following. For example, when using a mask ROM, the additional data of application software or application, music data, etc. can be provided as cheap package media. When a mask ROM and SRAM/EEPROM are stored to the memory cartridge 18, Application software can be stored in a mask ROM and user data (an E-mail, image data, etc.) and the downloaded additional data can be stored in SRAM/EEPROM. When only SRAM/EEPROM is stored to the cartridge 18, since application software and data which were downloaded are stored or an user datum is stored, it may be used.

[0030]The USB downstream ports 16a and 16b are ports of a USB (Universal Serial Bus) standard.

The station 10 functions as a host of USB.

These USB downstream ports 16a and 16b function as a connector for connecting various input devices shown below, data storage, etc.

[0031]It is possible to be able to consider a keyboard, a mouse, a tablet, a joy pad/joy stick, a music keyboard, etc., and to connect the optimal input device for application as an example of an input device (man machine interface). Since daisy chain connection and cascade connection can be performed as a feature of USB, it also becomes possible to connect a mouse to the point of a keyboard.

[0032]As an example of data storage, a floppy disk drive, mass disk drives (zip drive etc.), an HDD unit, etc. are available, and since the data downloaded via data communications is saved, it uses. It is also possible to store the user file of application software.

[0033]As an input/an output device elsewhere connectable with the ports 16a and 16b, an audio player, a CCD camera unit, etc. which store music data in a printer, a digital still camera, and semiconductor memory are mentioned. A printer is used for printing of an E-mail or a Web page, printing of the document image file which application software treats, etc. If a digital still camera is used, the graphics file etc. which are attached to an E-mail can be incorporated from a digital still camera. The application software which performs arrangement of the image data in a digital still camera and edit can be realized without using a personal computer.

[0034]Download of the music data which was not made when an MP3 player etc. did not have a personal computer conventionally by connecting to semiconductor memory the audio player which stores music data, and operation of exchange of music are attained. A CCD camera unit is used for the input of the image data for attaching to an E-mail, and a video telephone system.

[0035]However, it is selectable as substitution of USB in infrared ray data communications

(IrDA etc.), IEEE1394 standards (FireWire, iLINK, etc.), or an original interface.

[0036]When using infrared ray data communication, the cable which connects the station 10 and the above connection devices is unnecessary, but since a mutual light-receiving-and-light-emitting part must be opposed and it must communicate, it is unsuitable for the apparatus operated while holding by hands, such as a gamepad.

[0037]When using an IEEE1394 standard, high-speed data communications are possible, but needed circuit structure will become large. Under the present circumstances, there is little correspondence apparatus.

[0038]In the high-speed processor and example which are built in the station 10. When using the I/O interface of "XaviX" (registered trademark) concerning this applicant's manufacturing and selling as it is, Although it is not necessary to add an interface controller as a peripheral LSI, a keyboard, a mouse, a joy pad, etc. need to prepare a port for exclusive use for each, and the interface of exclusive use [the apparatus side connected] is needed.

[0039]In the drawing 1 example, using the USB download ports 16a and 16b considered to be the optimal, USB connector 22 is used for these ports 16a and 16b, and, under the present circumstances, the operation putt 20 and the keyboard 24 are connected to them by an above-mentioned reason, respectively.

[0040]The drawing 1 example carries out insertion connecting of the portable telephone 26 to the connector 12 of the station 10, When the processor (XaviX) built in the station 10 according to the input from the operating pad 20 or KIBODO 24 gives command data to the portable telephone 26, information services, such as an E-mail and WWW browsing, can be used using a TV-for-home device. It is also possible to perform operations which are hard to perform if the key and indicator of the portable telephone are used, such as edit of the telephone number data stored in the portable telephone 26 and edit of a ringer tone, using the input device (for example, keyboard 24) which is easy to treat, and a legible display (TV-for-home device).

[0041]Therefore, in an example, the station 10 is connected to the television monitor 32 like TV for home by the AV cable 34. Therefore, since information and data are displayed on the television monitor 32 when using an information service, or when processing or editing the data of the portable telephone 26, it becomes very legible.

[0042]For example, the station 10 is given via the plug 38 and the power source wire 36 from the commercial power 40, it is provided with the power supply circuit (drawing 2) which changes the exchange 100V into required DC power supply. However, when the station 10 does not have the below-mentioned charging function, it is also possible as a power supply to use a cell.

[0043]With reference to drawing 2, the station 10 contains the high-speed processor 42 like XaviX (registered trademark). Since XaviX (registered trademark) is explained to JP,10-307790,A [G06F13/36 15 / 78] in detail, for example, duplication explanation is omitted by referring to the publication before examination here. However, other arbitrary processors thru/or microcomputers may be used for this example.

[0044]The serial communication port 28 of the portable telephone 26 with which the portable telephone connector 12 (drawing 1) is equipped is connected to the input/output port 44 of the processor 10. As mentioned above, while a necessary power supply is supplied to each component in the station 10 from this power supply circuit 46 including the power supply circuit 46 where the station 10 receives commercial power, the power supply for charge is supplied to the charge circuit 48. The charging terminal 50 of the charge circuit 48 is connected to the charging terminal 30 (drawing 1) of the portable telephone 26 as mentioned above. Therefore, the cell (not shown) of the portable telephone 26 is charged by the charge circuit 48 in the station 10. That is, the station 10 functions also as a charge station of the portable telephone 26 not only as above information processing stations.

[0045]The processor 42 processes the data inputted from the data or the keyboard 24 (drawing 1) acquired via the data from the portable telephone 26, and the portable telephone 26 by central processor, graphic processor, a sound processor, etc., A video signal and an audio signal are outputted from the video output terminal 52 and the audio output terminal 54, and these signals let the AV cable 34 pass, and are inputted into the television monitor 32. In the station 10, an audio signal is given to the loudspeaker 58 through the amplifier 56, and can also be outputted from this built-in loudspeaker 58.

[0046]XaviX42, i.e., a processor, contains semiconductor memory (not shown) as explained in the publication before examination with each above-mentioned processor. The processor 42 is connected to USB controller 60 through the external bus 62.

[0047]USB controller 60 contains a microcontroller, FIFO, a serial/parallel-conversion circuit, a transceiver, a host interface, etc. However, a commercial USB controller can be used.

[0048]The memory 64 for system program storing, the working memory 66, and APUKESHON / memory for data storage 68 are connected to the external bus 62. The memory 64 for system program storing stores system software (OS, BIOS, etc.) and basic function software of SUTESHO 10 N (an E-mail, a WWW browser, a number edit function, etc.). Although it is desirable to use a mask ROM in price, the driver of the apparatus connected to updating and the USB port of software is storable by using EEPROMs, such as a flash memory. The working memory 66 is used for momentary preservation of the downloaded data (HTML data, image data) etc. as workspace of the software performed on the processor 42. Application / memory 68 for data storage is memories for performing preservation of application software and data which were downloaded.

EEPROMs by which the battery back-up was carried out, such as SRAM or a flash memory, are used.

[0049]As for an above-mentioned memory, it may be desirable that it is one memory device physically if it is the same kind of memory, and one semiconductor device may include the semiconductor memory of two or more above-mentioned kinds, and/or two or more functions.
[0050]The memory cartridge 18 explained previously is connected to the external bus 62 via the connector 14. Therefore, the processor 42 can receive the data of the memory cartridge 18.
[0051]As for the portable telephone 26, with reference to drawing 3, the memory 72 is combined with this microcomputer 70 including the microcomputer 70. The memory 72 is a flash memory, for example.
While the program which controls receipt, the whole portable telephone 26 the operation, for example, call origination, a line connection, etc. is stored, the memory area which stores an user datum like telephone book data is included.
It is combined with the serial communication port 28 via the data-communications unit 78, and the microcomputer 70 performs transfer of the station 10 and data again, as explained previously. Further, the transmission and reception circuit 74 is controlled, and the transmission and reception circuit 74 gives a sending signal to the antenna 78, or the microcomputer 70 receives the input signal from the antenna 76. The data-communications unit 78 is one semiconductor chip known, for example as an ADP chip.
As everyone knows, a V.24-IF circuit, a protocol control circuit, a data compression/extension circuit, the error control circuit between non-railroad sections, etc. are included.
However, this ADP being provided in one LSI together with other functions, and processing a part of that function with software is also considered.
[0052]the terminals with an above exchange of the data between the input/output port of the processor of 10 which throw away with the serial communication port 28 of the portable telephone 26 -- passing (cable) -- it may be made to carry out by short-distance-radio communication of the others (Bluetooth) in the case of carrying out, for example, Bluetooth etc.

[0053]In an above-mentioned example, when it is going to receive offer of an information service using the portable telephone 26, a user selects a menu in Step S1 of the beginning of drawing 4. However, the menu is displayed on the television monitor 32, as stated previously.
[0054]When it judges that the menu which the user selected in Step S2 is network connection service, in continuing Step S3, it is judged whether the processor 42 (drawing 2) has a certain input using the operating pad 20 and the keyboard 22 (drawing 1) from a user. However, if the menu which the user chose at Step S1 is not network connection service, it will fly to the program for processing of an applicable menu through Step S2.
[0055]If there is a certain input from a user when "YES" is judged at this step S3 that is, the processor 42 will judge whether that input is what directs the end in the mode. If it is "YES" in

step S4, it returns to previous Step S1.

[0056]If "NO" is judged by step S4 (i.e., if the mode of network connection service is directed by the user), the processor 42 will send the Request to Send of a program or data to the portable telephone 26 at Step S5. This Request to Send lets the serial communication port 28 shown in drawing 2 and drawing 3 pass, and is sent to the microcomputer 70 of the portable telephone 26.

[0057]On the other hand, in the portable telephone 26, it is a waiting state at Step S11, and Step S12 will receive the Request to Send. The microcomputer 70 (drawing 3) which received the Request to Send at Step S12 is Step S13, and judges to the present network whether it is under [connection] ********. If it is "YES", it progresses to Step S15, but it progresses to Step S15, after controlling the transmission and reception circuit 74 by Step S14 and performing network connection processing, if it is "NO." That is, if there is a Request to Send from the station 10 42, i.e., a processor, the portable telephone 26 and a network will be connected, using the network connection function of the portable telephone 26 as it is. Then, the microcomputer 70 accesses a network required server, the program or data which the station 10 requires is acquired from there, and it stores in the memory 72 (drawing 3) temporarily. And in Step S16 and Step S6, transmission and reception of data are performed between the microcomputer 70 26, i.e., a portable telephone, and the processor 42 10, i.e., a station.

[0058]In the station 10 side, the program and/or data which were made such and received are stored in application / memory 68 grade for data storage in Step S7, respectively. And the stored program is executed, a video signal and/or an audio signal are outputted, and a sound is outputted while displaying picture image data by the television monitor 32. Or voice response is carried out, while outputting a video signal and/or an audio signal and displaying a character and picture image data on the television monitor 32 according to the acquired data. Or music data is reproduced using the loudspeaker (not shown) or the loudspeaker 58 of the monitor 32.

[0059]On the other hand, in the portable telephone 26, it judges whether the end of communication was become final and conclusive at Step S17, or it timed out after Step S16, and the transmission and reception circuit 74 is controlled by Step S18, and one "YES" of cases performs network connection end processing. However, it returns to the waiting state of Step S11 the case of "NO", and after Step S18 at this step S17.

[0060]Thus, the station 10 can acquire a program and data from a network using the network connection function of the portable telephone 26. And if such a network accessing function is used, offer of the following various information services can be received.

[0061](1) The keyboard 24 (drawing 1) is connected to E-mail USB port 16a or 16b, and the input of a comfortable E-mail is attained using the big screen of the television monitor 32. At this time, XaviX, i.e., powerful "kana-kanji conversion function" of the processor 42, can be used. The file the display and reproduction by the television monitor of the graphics file which received as an attached file, or a voice file are not only attained, but stored in data storage, such as FDD (floppy disk drive) linked to a USB port, can be attached to an E-mail. A digital still camera is connected to a USB port, and a graphics file can be attached to an E-mail.

[0062](2) On the WWW browsing television monitor 32, the display of the Web page in high resolution and brilliance color is attained, and the MIDI data on a page, etc. are refreshable.

[0063](3) A mouse, a music keyboard, etc. are connected to the edit USB port of a ringer tone (ringtone), It is possible it not only to be able to to edit a ringer tone (ringtone), but to acquire from a network by communication, or to change the MIDI data inputted from FDD and to consider it as a ringer tone.

[0064](4) This can be realized, without needing special apparatus, when playing music using a music distribution and the karaoke distribution XaviX, i.e., the built-in sound source of the processor 42. Since the data which is needed here is only score data and special sound source data (when required), with several kilobytes - 10 K bytes of number, there is very little data volume required for per music, and it ends. However, in the case of music with vocal (voice), it is necessary to save data at a memory cartridge, data storage, etc. Distribution of the music data in the quality near CD is possible by connecting with an MP3 player etc.

[0065](5) It is possible to download software to the memory in a software distribution station or the SRAM/EEPROM type memory cartridge 18.

[0066](6) The distribution service of the additional data of the application software supplied by software additional data distribution ROM cartridge 18 or the application software acquired from the network by communication is possible. For example, it can use for distribution of the additional data of a game, and the additional problem of education software, etc.

[0067](7) Charge collection vicarious execution service of an e-commerce cellular phone company (typically, it is using i-mode of NTT DoCoMo and various services become realizable.) For example, a home banking, home trading, on-line shopping, ticket reservation and purchase, a hotel request to print out files, betting ticket purchase, the Lot lot, etc.

[0068](8) In addition, for example, information services, such as news, a weather report, financial news, music information, newly-released-piece-of-music guidance, an adoption information television guide, a travel guide, and an advertisement, can be received.

[0069]Drawing 5 shows the telephone directory edit which are the station 10 when not using the network accessing function of the portable telephone 26, and an example of operation of the portable telephone 26.

[0070]When it is going to edit the telephone directory information of the portable telephone 26, a user selects a menu in Step S21 of the beginning of drawing 5. However, the menu is displayed on the television monitor 32.

[0071]When it judges that the menu which the user selected in Step S22 is telephone directory edit, in continuing Step S23, the processor 42 (drawing 2) requires reception of telephone book data of the portable telephone 26. However, if the menu which the user chose at Step S21 is not telephone directory edit, it will fly to the program for processing of an applicable menu through Step S22. This request to receipt lets the serial communication port 28 shown in drawing 2 or drawing 3 pass, and is sent to the microcomputer 70 of the portable telephone 26.

[0072]On the other hand, in the portable telephone 26, it is a waiting state at Step S31, and Step S32 will receive the request to receipt. It is Step S33, and it lets the serial communication port 28 pass, and, as for the microcomputer 70 (drawing 3) which received request to receipt at Step S32, the telephone book data currently stored in the memory 72 is sent to the processor 42 of the station 10.

[0073]The processor 42 is Step S24, receives telephone book data and performs telephone directory edit after it using the television monitor 32. That is, at Step S25, while displaying telephone book data on the monitor 32, the input from the keyboard 24 (drawing 1) by a user is received. If a user input occurs, it will progress to Step S27 through Step S26, and it will be judged there whether a user input is mode termination indication. When it is not termination indication, in Step S28, the processor 42 answers a user's keyboard grabbing and performs telephone directory edit, i.e., correction of telephone book data, addition, deletion, etc.

[0074]Then, if a user inputs mode termination indication, through Step S27, it will progress to Step S29 and a Request to Send will be sent to the microcomputer 70 of the portable telephone 26 that edited telephone book data should be transmitted to the portable telephone 26. In the portable telephone 26, it will go into a waiting state (Step S34) after Step S33, and Step S35 will receive this Request to Send. The processor 42 of the station 10 is Step S30, and transmits telephone book data following a Request to Send. In the portable telephone 26 side, the telephone book data is received at Step S36, it is stored in the memory 72, and the telephone book data in the memory 72 is updated by edited data. Then, it returns to the waiting state of Step S31.

[0075]Thus, edit and preservation of a telephone number can be performed using the station 10. That is, the name of the partner point and the data of a telephone number which are stored in a portable telephone can be edited and updated using a keyboard or a mouse. Such telephone book data can also be saved at a memory, or an external memory cartridge or data storage in the station 10.

[0076]Although detailed explanation is omitted, The telephone number of the partner who has telephoned the portable telephone 26 can be specified using the number display function of the portable telephone 26, and a profile and a photograph can be displayed on a screen with reference to the database beforehand inputted into an internal memory or external memory.

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TECHNICAL FIELD

[Field of the Invention]In this invention, about a portable telephone station, especially, a high-speed processor is carried and it has an interface with input devices, such as a keyboard and a mouse.
Therefore, the user of a portable telephone is related with the new portable telephone station which can use various information services including an E-mail and WWW browsing using TV for home.

[Translation done.]

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PRIOR ART

[Description of the Prior Art]For example, the portable information device which sends the display information on a portable telephone to TV for home using infrared rays, and displayed this display information on JP,9-237145,A [G06F3/02 3/14, H04Q7/38] using that TV footage is indicated.

[0003]For example, the portable communication equipment or the indicative-data inverter which enabled it to display the display information on a portable telephone using TV for home is indicated in a similar manner by JP,11-196159,A [H04N1/00, H04B7/26].

[Translation done.]

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EFFECT OF THE INVENTION

[Effect of the Invention]A network can be accessed in this invention, using the network connection function of a portable telephone positively.
Therefore, in the previously quoted conventional technology, the cut nothing profitable E-mail and various information services including WWW browsing can be used.
That is, in the former, very cheap apparatus can realize now various information services which were not fully able to be used without expensive information terminals, such as a personal computer.
[0020]When inputting a name, a telephone number, etc. of the partner point into a portable telephone, and when using messaging service and an E-mail, although an input is very complicated, by the key of a portable telephone, At the portable telephone station of this invention, a keyboard, a mouse, etc. can realize the data input in comfortable environment, and operation of application software by connecting the input device which is easy to treat. The optimal input device for application can be chosen.
[0021]Operations which are hard to perform if the key and display for indication of the portable telephone are used, such as edit of the telephone number data stored in a portable telephone and edit of a ringer tone, can be performed using the input device which is easy to treat, and a legible display (television monitor).
[0022]Similarly, although the information service using a portable telephone has come to be performed briskly, an I mode, EZWEB, etc., Small, since the indicator of the present portable telephone also has few color numbers, the quantity and quality of information which can be displayed have big restriction, and there is a limit also in refreshable tone quality by a loudspeaker with a built-in portable telephone also about a sound. On the other hand, since a television monitor can be used as an output unit of an image and a sound, higher image display capability and sound reproduction capability are realizable at the portable telephone station of this invention.

[0023]Although the method which settles accounts by inputting the information on a credit card in service of the on-line shopping and online trading using the conventional personal computer is common, Since there was no way which confirms that the problem of the security of the Internet, and an article and the donor of service are a company and a store with substance, the user was not able to use service in comfort. The donor of service also has to build and manage the system of payment collection at his risk. On the other hand, in the cellular phone company, it combines with recovery of a telephone rate and the system which executes recovery of the price to offer of information content by proxy is already built. When high image display capability and sound reproduction capability of a portable telephone station to have followed this invention combine with this payment collection system, various new services safe also for offer also for a user and attractive are realizable.

[0024]The above-mentioned purpose of this invention, the other purposes, the feature, and an advantage will become still clearer from the detailed explanation of the following examples given with reference to drawings.

[Translation done.]

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention]Since the information originally displayed on the small liquid crystal display of a portable telephone is greatly displayed on TV footage in the conventional technology quoted in the top, when editing or processing those information, information becomes legible and is dramatically convenient.
[0005]However, each conventional technology can display the information which should be displayed with a portable telephone in TV footage, and does not use the function of a portable telephone positively.
[0006]So, the main purpose of this invention is to provide the new portable telephone station which can use the function of a portable telephone positively.
[0007]Other purposes of this invention are to provide the portable telephone station which makes various information services available using a portable telephone.

[Translation done.]

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MEANS

[Means for Solving the Problem]A portable telephone station according to this invention, It is what uses a portable telephone which has a network connection function, A processor which has input/output port and an internal memory of data which can be transmitted and received between portable telephones through a communication port of a portable telephone, An interfacing means for connecting at least one input device to a processor, A video output terminal which gives a video signal outputted from a processor to a television monitor, An audio output terminal which gives an audio signal outputted from a processor to a television monitor, And while having external memory combined with a processor and outputting a video signal and an audio signal by a television monitor, It is the portable telephone station which a processor acquires data from a network using a network connection function of a portable telephone according to an input device to an input, and was stored in either [at least] an internal memory or external memory.

[0009]As an interfacing means, a USB port, infrared ray data communication (IrDA), etc. can be used.

[0010]External memory contains at least one of a system program storing demand memory, a working memory, and the applications / data storage demand memories.

[0011]When it has a cartridge connector further, external memory contains a memory cartridge with which said cartridge connector is equipped.

[0012]In an example, a portable telephone station is further provided with a portable telephone connector, a portable telephone connector is equipped with a portable telephone, and a communication port of a portable telephone is connected to input/output port.

[0013]When a portable telephone connector contains a charging terminal, a charging terminal of a portable telephone is connected to the charging terminal, and a charge circuit charges a cell of a portable telephone through these charging terminals.

[0014]Between a communication port of a portable telephone, and input/output port included in a processor of a station, using short-distance-radio communication, may be and it may receive it made to transmit data.

[Translation done.]

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OPERATION

[Function]A portable telephone station has a portable telephone connector, and the connector is equipped with a portable telephone. The communication port of a portable telephone is connected to the input/output port of a processor, therefore transfer of data is attained between the processor of a station, and the computer of a portable telephone. For example, a keyboard and an input device like a mouse are connected to an interfacing means like a USB port.
[0016]A processor will transmit and receive appearance between the computers of a portable telephone, and if it directs to a processor that a user operates this input device and receives an information service from on a network, it will tell those directions to a portable telephone.
[0017]In a portable telephone, according to the directions, a network is accessed using the network connection function which a portable telephone has, and the program and data which were directed by the user are incorporated.
[0018]Data and the program which were incorporated by the portable telephone let a communication port pass, it is sent to the processor of a station, and the data and program are stored in an internal memory and/or external memory. At this time, the access state to a network is outputted to a television monitor as an image and a sound.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1]It is an illustration figure showing the composition of one example of this invention.
[Drawing 2]It is a block diagram showing the circuitry of the drawing 1 example.
[Drawing 3]It is a block diagram showing the circuit of a main part of the portable telephone of drawing 2 in detail.
[Drawing 4]It is a flow chart showing an example of the operation in the drawing 1 example.
[Drawing 5]It is a flow chart showing other examples of the operation in the drawing 1 example.

[Description of Notations]
10 -- Portable telephone station
12 -- Portable telephone connector
14 -- Cartridge connector
16a and 16b -- USB downstream port
18 -- Cartridge
20 -- Operating pad
24 -- Keyboard
26 -- Portable telephone
28 -- Serial communication port
30 and 50 -- Charging terminal
32 -- Television monitor
42 -- Processor (XaviX)
48 -- Charge circuit
62 -- External bus
64 -- Memory for system program storing
66 -- Working memory

68 -- Application / memory for data storage

[Translation done.]

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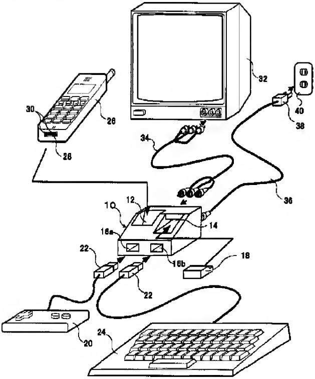
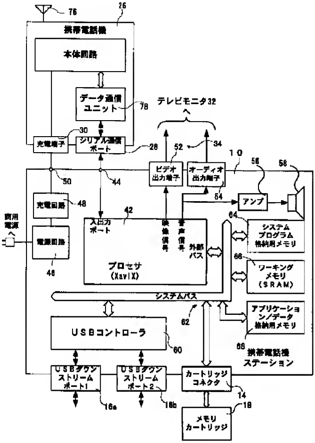
DRAWINGS

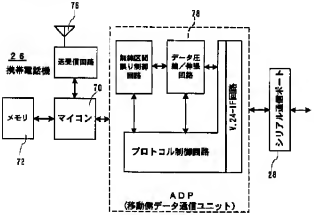
[Drawing 1]



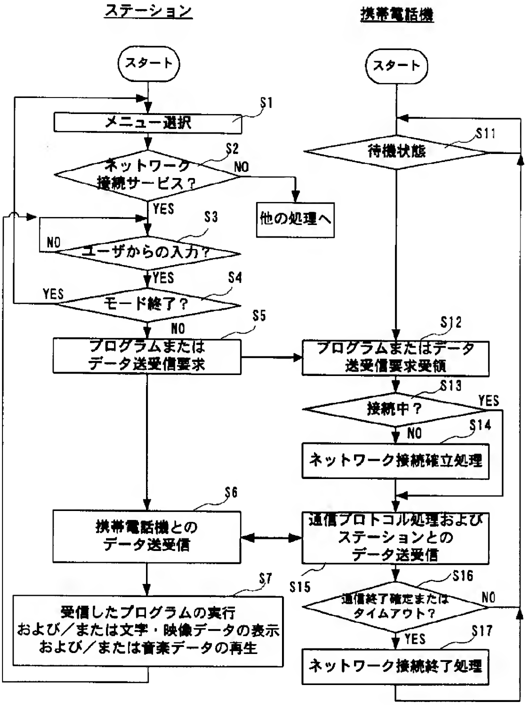
[Drawing 2]


76
26
携帯電話機
本体回路
データ通信ユニット
78
テレビモニタ32へ
30
充電端子
シリアル通信ポート
28
52
34
10
ビデオ出力端子
オーディオ出力端子
56
58
50
44
54
アンプ
充電回路
48
42
商用電源へ
入出力ポート
映像信号
音声信号
64
システムプログラム格納用メモリ
電源回路
外部バス
66
ワーキングメモリ（SRAM）
46
プロセサ（XavIX）
システムバス
62
アプリケーション／データ格納用メモリ
USBコントローラ
60
68
携帯電話機ステーション
USBダウンストリームポート1
USBダウンストリームポート2
カートリッジコネクタ
14
16a
16b
18
メモリカートリッジ

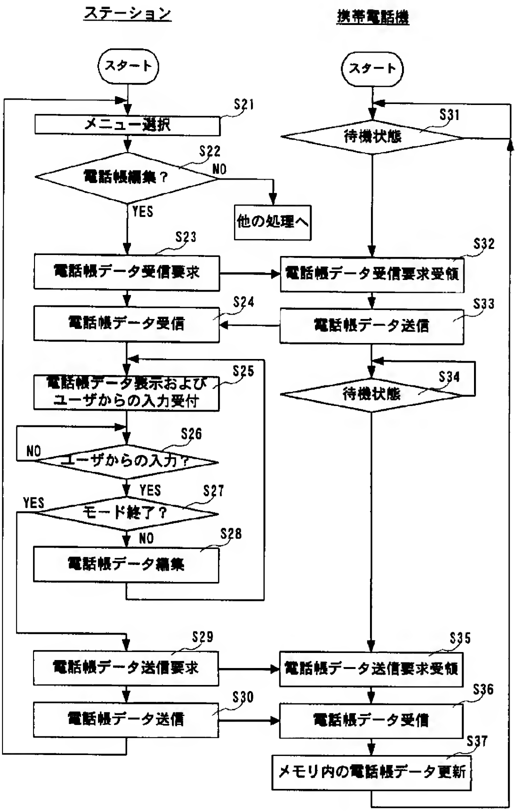
[Drawing 3]


76
78
26
携帯電話機
送受信回路
無線区間誤り制御回路
データ圧縮／伸張回路
70
メモリ
マイコン
V.24-IF回路
シリアル通信ポート
72
プロトコル制御回路
28
ADP
（移動側データ通信ユニット）

[Drawing 4]


ステーション
携帯電話機
スタート
スタート
S1
メニュー選択
S11
待機状態
S2
ネットワーク接続サービス？
NO
他の処理へ
YES
S3
NO
ユーザからの入力？
YES
S4
YES
モード終了？
NO
S5
プログラムまたはデータ送受信要求
S12
プログラムまたはデータ送受信要求受領
S13
接続中？
YES
NO
S14
ネットワーク接続確立処理
S6
携帯電話機とのデータ送受信
通信プロトコル処理およびステーションとのデータ送受信
S15
S16
通信終了確定またはタイムアウト？
NO
YES
S7
受信したプログラムの実行および／または文字・映像データの表示および／または音楽データの再生
S17
ネットワーク接続終了処理

[Drawing 5]


ステーション
携帯電話機
スタート
スタート
S21
メニュー選択
S22
電話帳編集？
NO
YES
他の処理へ
S23
電話帳データ受信要求
S24
電話帳データ受信
S25
電話帳データ表示および
ユーザからの入力受付
S26
NO
ユーザからの入力？
YES
S27
YES
モード終了？
NO
S28
電話帳データ編集
S29
電話帳データ送信要求
S30
電話帳データ送信
S31
待機状態
S32
電話帳データ受信要求受領
S33
電話帳データ送信
S34
待機状態
S35
電話帳データ送信要求受領
S36
電話帳データ受信
S37
メモリ内の電話帳データ更新

[Translation done.]